



**CITY OF
SWIFT CURRENT**
where life makes sense

**SECTION 12000
REGULATORY ROADWAY SIGNS**

DECEMBER 2015



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1 GENERAL

1.1 DESCRIPTION

- 1.1.1 This section includes the supply and installation of regulatory roadway signs within areas required by the City.
- 1.1.2 The Contractor shall provide all labour, products and equipment required for work including, but not limited to:
- Supply and installation of signs

1.2 RELATED SECTIONS

- 02010 Site Preparation and Grading
- 02015 Sub – Grade Preparation
- 03001 Aggregates General
- 03005 Granular Base Course
- 03010 Granular Sub – Base
- 04000 Asphalt Pavement Crack Routing and Sealing
- 04001 Asphalt Pavement Crack Sealing
- 04015 Asphalt Concrete
- 04025 Prime, Tack and Fog Coats
- 04070 Asphalt Concrete Pavement Milling
- 06010 Concrete Side walk, Curb and Gutter Construction
- 07000 Pavement Markings
- 10000 Flexible Guide Posts and Delineators

1.3 INSPECTION AND TESTING

- 1.3.1 Evaluation of the work will be based on a visual inspection by the Engineer.

1.4 SHOP DRAWINGS

- 1.4.1 Submit shop drawings for signage structures indicating product data and design.

2 PRODUCTS

2.1 SIGN SUPPORTS

- 2.1.1 Steel posts: to be round 2 5/8" diameter. Metal thickness: 4.5 mm. Hot dipped galvanized: to CAN/CSA-G164.
- 2.1.2 Wood posts: to be pressure treated 150mm x 100mm minimum, or dimensions as specified by the City.
- 2.1.3 Base plates for mounted signs: to ASTM B209M.

- 2.1.4 Fasteners: bolts, nuts, washers and other hardware for roadside signs to be cast aluminium alloy, or galvanized steel.

2.2 SIGNBOARDS

- 2.2.1 Aluminium sheet shall be tension levelled, sign grade aluminium and conform to ASTM B209M, Alloys 6061-T6 or 5052-H38 pre-cut to required dimensions. Minimum thickness to be 1.6 mm for signboards up to 750 mm wide. Minimum thickness to be 2.0 mm for signboards 750 to 1200 mm wide.
- 2.2.2 Connecting straps and brackets to ASTM B209M.
- 2.2.3 Reflective sheeting shall meet or exceed the minimum requirements specified in ASTM-D4956 Performance Requirements Type III, High Intensity Retro reflective Sheeting.

2.3 FABRICATION

- 2.3.1 Signboards:
- Aluminum blanks: Degrease, etch and bonderize with chemical conversion coating. Clean surfaces with xylene thinner. Dry. Aluminum signboards are to be painted before installation. Spray and bake face of signboards with two coats of enamel in accordance with CAN/CGSB-1.104.
 - Apply sign number and date of installation with 25 mm high stencil painted black letters on lower left back face of each signboard.

3 EXECUTION

3.1 INSTALLATION

- 3.1.1 Sign Support:
- Erect supports as indicated with concrete footings. Erect posts with base plates resting on aluminum nuts and restrained with nuts and washers.
 - Coat underside of base plate with corrosion protective paint before installation.
 - Close open aluminum tubes and posts with aluminum cap.
 - Erect posts plumb and square to details as indicated.
 - Single channel steel posts are to be driven to required depth without damage to posts. If rock or concrete is encountered, auger hole to required depth and set post in sand.
 - In finished concrete or asphalt surfaces, backfill with concrete or grout. Protect from adverse conditions until cured.
 - Permissible tolerance is ± 12 mm departure from vertical.
- 3.1.2 Signboard:
- Fasten signboards to supporting posts and brackets as indicated.

- Use strapping with crimped or bolted connections where signs fastened to utility poles.

3.2 PROTECTION

- 3.2.1 Place temporary covering on signboards where required. Covering to be capable of withstanding rain, snow and wind and be non-injurious to signboard. Replace deteriorated covering and remove covers as reviewed by the City.

3.3 CORRECTING DEFECTS

- 3.3.1 Correct defects, identified by the City, in consistency of reflectivity, colour or illumination.

3.4 SUPPLY AND INSTALL NEW SIGN POSTS (150MM TO 100MM)

- 3.4.1 All salvaged signs shall be installed on new signposts 100 mm x 150 mm with the long dimension in line with the road.
- 3.4.2 The length of the post must be sufficient such that the bottom of the re-installed signs is 2.0 m above the shoulder of the paved road and the post is buried in the ground 1.5 m minimum.

4 MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

- 4.1.1 Measurement for roadway signs will be based on as-built drawings, or actual field counts.

4.2 PAYMENT

- 4.2.1 Payment for roadway signs will be made at the unit price specified in the contract and the correlating amount.

END OF SECTION